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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-62. (Canceled)

63. (Currently Amended) A method of preparing an archive sample for analysis; said method comprising:

identifying a sample to be analyzed;

responsive to said identifying, ascertaining a location of said sample on a discrete sample node supported by a sample carrier; said discrete sample node comprising a sample support medium operative to carry a discrete sample in desiccated form;

responsive to said ascertaining, removing said discrete sample node from said sample carrier; and

preparing said sample for analysis, wherein

said sample is biological, and

wherein said sample is a polynucleotide.

- 64. (Original) The method of claim 63 wherein said identifying comprises interrogating a data structure.
- 65. (Original) The method of claim 63 wherein said ascertaining comprises utilizing an optical sensor.
- 66. (Original) The method of claim 63 wherein said ascertaining comprises reading a bar code.
- 67. (Original) The method of claim 63 wherein said ascertaining comprises identifying a unique signal transmitted from a transceiver attached to said discrete sample node.
- 68. (Original) The method of claim 67 wherein said removing comprises transmitting a control signal to said transceiver.

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(Original) The method of claim 63 wherein said removing comprises utilizing a laser. 69.

- (Original) The method of claim 63 wherein said removing comprises utilizing a 70. mechanical clipping tool.
- (Original) The method of claim 63 wherein said preparing comprises depositing said 71. discrete sample node in a sample container.
- (Original) The method of claim 63 wherein said preparing comprises washing sample 72. material attached to said discrete sample node.

73-75 (Canceled)

- (Currently Amended) The method of claim 75 claim 63 wherein said preparing 76. comprises amplifying said polynucleotide.
- (Currently Amended) A method of preparing an archive sample for analysis; said 77. method comprising:

receiving a request related to an experiment;

identifying a sample suitable for said experiment;

responsive to said receiving and said identifying, locating a sample carrier supporting said sample on a discrete sample node; said discrete sample node comprising a sample support medium operative to carry a discrete sample in desiccated form;

detecting a location of said discrete sample node on said sample carrier; removing said discrete sample node from said sample carrier; and preparing said sample for analysis analysis, wherein

said detecting comprises obtaining video signals output from an optical sensor.

- 78. (Original) The method of claim 77 wherein said locating comprises interrogating a database maintaining records related to said sample carrier.
- 79. (Original) The method of claim 77 wherein said locating comprises utilizing an optical sensor.

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80. (Original) The method of claim 77 wherein said locating comprises reading a bar code.

- 81. (Canceled)
- 82. (**Currently Amended**) The method of elaim 81 claim 77 wherein said removing comprises automatically operating a sample node removal device responsive to said obtaining video signals.
- 83. (Currently Amended) The method of elaim 81 claim 77 wherein said removing comprises manually operating a sample node removal device.
- 84-85 (Cancelled)
- 86. (Original) The method of claim 77 wherein said removing comprises utilizing a laser.
- 87. (Original) The method of claim 77 wherein said removing comprises utilizing a mechanical clipping tool.
- 88. (Original) The method of claim 77 wherein said preparing comprises depositing said discrete sample node in a sample container.
- 89. (Original) The method of claim 77 wherein said preparing comprises washing sample material attached to said discrete sample node.
- 90. (Original) The method of claim 77 wherein said sample is non-biological.
- 91. (Original) The method of claim 77 wherein said sample is biological.
- 92. (Currently Amended) The method of claim 91 A method of preparing an archive sample for analysis; said method comprising:

receiving a request related to an experiment;

identifying a sample suitable for said experiment;

responsive to said receiving and said identifying, locating a sample carrier supporting said sample on a discrete sample node; said discrete sample node comprising a sample support medium operative to carry a discrete sample in desiccated form;

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detecting a location of said discrete sample node on said sample carrier;
removing said discrete sample node from said sample carrier; and
preparing said sample for analysis,

wherein said sample is biological, and

wherein said sample is a polynucleotide.

93. (Original) The method of claim 92 wherein said preparing comprises amplifying said polynucleotide.

94-101 (Canceled)

102. (Currently Amended) A method of preparing an archive sample for analysis; said method comprising:

identifying a sample to be analyzed; said sample maintained in desiccated form and carried on a sample support medium associated with a discrete sample node;

responsive to said identifying, obtaining said sample;

preparing said sample for analysis; and

selectively repeating said identifying, said obtaining, and said preparing at a rate sufficient to prepare in excess of 100 samples for analysis per day wherein said sample is biological, and wherein

said sample is a polynucleotide.

- 103. (Original) The method of claim 102 wherein said identifying comprises interrogating a database.
- 104. (Original) The method of claim 102 wherein said identifying comprises utilizing an optical sensor.
- 105. (Original) The method of claim 102 wherein said obtaining comprises automatically operating a sample node removal device.
- 106. (Original) The method of claim 105 wherein said obtaining comprises utilizing a laser.

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107. (Original) The method of claim 105 wherein said obtaining comprises utilizing a mechanical clipping tool.

108. (Original) The method of claim 102 wherein said preparing comprises depositing said sample in a sample container.

109. (Original) The method of claim 102 wherein said preparing comprises washing said sample.

110-112 (Canceled)

- 113. (Currently Amended) The method of claim 112 claim 102 wherein said preparing comprises amplifying said polynucleotide.
- 114. (Currently Amended) The method of claim 111 claim 102 wherein said selectively repeating occurs at a rate sufficient to prepare in excess of 200 samples for analysis per day.
- 115. (Currently Amended) The method of claim 111 claim 102 wherein said selectively repeating occurs at a rate sufficient to prepare in excess of 500 samples for analysis per day.